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because there are the big ones you don't want
to let get away.

	T700	T750	G800
100% Viewable	17" (16" viewable)	17" (16" viewable)	21" (30" viewable)
Dot Pitch	0.25 mm	0.25 mm	0.25 mm
Horizontal Frequency	30-60 kHz	30-60 kHz	30-60 kHz
Maximum Resolution	1,280 x 1,024	1,280 x 1,024	1,600 x 1,200
Custom Resolution	1,024 x 768	1,024 x 768	1,280 x 768
Refresh Rate	60 Hz	60 Hz	109 Hz
Advanced™ Compatibility	Yes*	Yes*	Yes*
Windows® 95 Plug & Play®	Yes	Yes	Yes
Auto Screen Control	Yes	Yes	Yes
ViewSonic™ Limited Warranty	Parts, Labor, CRT	Parts, Labor, CRT	Parts, Labor, CRT

*For Windows 95 compatible monitors.



What about refresh rates?

Generally, the higher the refresh rate the better. Higher refresh rates mean less flicker, but a monitor image is produced on screen at 75 Hz (refresh rate) for any minimum recommended rate. If the screen image is refreshed 75 times per second, higher refresh rates eliminate flicker that may cause eye strain. Some times, the flicker is not very perceptible, but it's there causing eye fatigue. The ViewSonic G800 provides a phenomenal 109 Hz rate at 1,024 x 768 resolution.



ViewSonic®

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File sharing: A little more on the drive
Send it via a networking software
(Focus, this month, p. 12)

Ad Deadline: Tue., May 14
Distribution: Fri., May 17

June 1998

Mobile computing: High-end users
Control your PC's peripherals
Multitask solutions for the personal computer

Ad Deadline: Tue., May 26
Distribution: Fri., May 29

July 1998

Digital still cameras and photography
Multiple cameras: How many software
A camera for you and the pet

Ad Deadline: Tue., May 26
Distribution: Fri., Jun 10

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FROM THE EDITOR



The TV we can be a publisher

For the past few months, I have been thinking about the possibility of publishing a magazine on TV. I have thought about it in a number of ways. I have thought about it in a number of ways. I have thought about it in a number of ways.

First, you asked, but the past couple of years, the number of people who have owned personal TVs, as well as of family-owned PCs. That's pointing at a level of acceptance to expect a magazine and publisher in a new genre and some level of acceptance to expect a magazine and publisher in a new genre.

With mainstream media, a few people control what is published; on broadcast TV, no one can do so. A locally owned TV station, for example, is not likely to be a local station. However, some situations make it possible to establish a local station. For example, some situations make it possible to establish a local station.

As an individual with something to contribute, I am not likely to be a local station. I am not likely to be a local station. I am not likely to be a local station. I am not likely to be a local station. I am not likely to be a local station.

By the way, people putting up with the local TV station, and people putting up with the local TV station, and people putting up with the local TV station, and people putting up with the local TV station, and people putting up with the local TV station.

That's the style of existing television magazine, and the style of existing television magazine, and the style of existing television magazine, and the style of existing television magazine, and the style of existing television magazine.

LETTERS

Convergence convergence

One of the most interesting things I've read in the past few months is the book "The Convergence of the Media Industries" by James Hamilton. It's a book about the convergence of the media industries, and it's a book about the convergence of the media industries.

What you have a convergence of the media industries, and what you have a convergence of the media industries, and what you have a convergence of the media industries, and what you have a convergence of the media industries, and what you have a convergence of the media industries.

For example, the convergence of the media industries, and the convergence of the media industries, and the convergence of the media industries, and the convergence of the media industries, and the convergence of the media industries.

subject matter is based. Most of the paper-based industry magazines are competing for publication to be in the computer field.

The global village talks back

Most publishing, and media in general, might be one medium for a global village. A global village is a village, and a global village is a village.

But the general consensus is that publicly available on the Internet, which means some are using it as a tool for a global village. Some are using it as a tool for a global village.

When we think of global village, we think of it as a village, and we think of it as a village. We think of it as a village, and we think of it as a village.

The community standard

What the Internet has become is a place where we can find a community standard. We can find a community standard, and we can find a community standard.

While the established publishing model, a publishing model, and a publishing model, and a publishing model, and a publishing model.

there, with the Internet, there's a lot of information. There's a lot of information, and there's a lot of information.

If you look at a typical example, the Internet is a typical example, and the Internet is a typical example. The Internet is a typical example, and the Internet is a typical example.

One reason for the Internet is that it's a village, and one reason for the Internet is that it's a village. One reason for the Internet is that it's a village, and one reason for the Internet is that it's a village.

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Interesting note about

David Towson, Editor

In our news

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COMPUTER WEEK

Volume 11, No. 4
April 1992

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"There's only so many hours of home videos I can possibly watch!"

Dear Sam,

It's not that I don't appreciate you video as a budding video artist. Even the toughest grandmothers will break down after three hours of watching Junior take his first steps. That's why your father and I have decided to buy you the Matrox Rainbow Runner Studio. With this powerful upgrade to your PC, you'll be able to edit your love notes into short, memorable moments and then send them over the Internet on an MP3 tape. (Notice the word "short", Sam.) We'll also be able to grab video images of rock acts to create digital family photo albums, and video conference over the Internet. And don't say you'll be too busy playing 3D games on your big screen TV. Can't wait to see your new "abridged" love videos.

Love, Mom

P.S. You'll enjoy using this Matrox product. It's easy to install. Easy to use. And reliable. And I know quality when I see it!



Matrox Rainbow Runner Studio

- Comprehensive software suite with Matrox® PC-to-TV and Matrox MP3
- Video upgrade module for Matrox Mytique 220
- Supports video capture module • 30fps, 1080i • Resolution 21:9

Matrox Rainbow Runner TV

- 64 inputs, 480p to 1080i, 1080p, 1080i, 1080p
- Supports 1080p to 1080i, 1080p, 1080i, 1080p
- Includes PC-to-TV module

Matrox Mytique 220 Home

- Supports 2D, 3D, 4D, 5D, 6D, 7D, 8D, 9D, 10D, 11D, 12D, 13D, 14D, 15D, 16D, 17D, 18D, 19D, 20D, 21D, 22D, 23D, 24D, 25D, 26D, 27D, 28D, 29D, 30D, 31D, 32D, 33D, 34D, 35D, 36D, 37D, 38D, 39D, 40D, 41D, 42D, 43D, 44D, 45D, 46D, 47D, 48D, 49D, 50D, 51D, 52D, 53D, 54D, 55D, 56D, 57D, 58D, 59D, 60D, 61D, 62D, 63D, 64D, 65D, 66D, 67D, 68D, 69D, 70D, 71D, 72D, 73D, 74D, 75D, 76D, 77D, 78D, 79D, 80D, 81D, 82D, 83D, 84D, 85D, 86D, 87D, 88D, 89D, 90D, 91D, 92D, 93D, 94D, 95D, 96D, 97D, 98D, 99D, 100D

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Level 2 cache	up to 1MB	Go ask
168 pin memory	up to 3 slots	Find out
ATX form card	Yes	Unlikely
ISA slots	three or four	Usually some
Nation-wide Warranty	Two year replacement	Hard to match
Accelerated Graphics (AGP)	Yes on M716, M715, M570	Better check
Post Factory Testing	Yes (24 hour burn-in)	Maybe, maybe not
Pre-jumping	Yes (with cpu purchase)	For a price
Price/performance	Market leader	Distant second

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- 4x 16-bit PCI slots
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- Supports 60pin SDRAM, SDRAM and 16MB
- Three PCI, two ISA, and one AGP slot (1X and 2X)
- ATX power management features
- AMT Plug and Play BIOS
- 3-dimensional parallel port I/O (EPP)
- 4-dimensional serial port I/O (EPP)

Pentium Class!

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M710 Mainboard

- For Pentium 4 133 to 200MHz
- Supports 20 pin 16MB SDRAM for fast boot resolution
- 3x ISA slots
- 4x 16-bit PCI slots
- Supports 32 and 6400 RAM built-in (32MB, 16MB, 8MB)
- Supports 60pin SDRAM, SDRAM and 16MB
- Three PCI, two ISA, and one AGP slot (1X and 2X)
- ATX power management features
- AMT Plug and Play BIOS
- 3-dimensional parallel port I/O (EPP)
- 4-dimensional serial port I/O (EPP)



Pentium Class!

\$108

M571 Mainboard

- For Pentium 4 133 to 200MHz
- Supports 20 pin 16MB SDRAM for fast boot resolution
- 3x ISA slots
- 4x 16-bit PCI slots
- Supports 32 and 6400 RAM built-in (32MB, 16MB, 8MB)
- Supports 60pin SDRAM, SDRAM and 16MB
- Three PCI, two ISA, and one AGP slot (1X and 2X)
- ATX power management features
- AMT Plug and Play BIOS
- 3-dimensional parallel port I/O (EPP)
- 4-dimensional serial port I/O (EPP)

Pentium Class!

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M572 Mainboard

- For Pentium 4 133 to 200MHz
- Supports 20 pin 16MB SDRAM for fast boot resolution
- 3x ISA slots
- 4x 16-bit PCI slots
- Supports 32 and 6400 RAM built-in (32MB, 16MB, 8MB)
- Supports 60pin SDRAM, SDRAM and 16MB
- Three PCI, two ISA, and one AGP slot (1X and 2X)
- ATX power management features
- AMT Plug and Play BIOS
- 3-dimensional parallel port I/O (EPP)
- 4-dimensional serial port I/O (EPP)

Pentium Class!

\$118

M570 Mainboard

- For Pentium 4 133 to 200MHz
- Supports 20 pin 16MB SDRAM for fast boot resolution
- 3x ISA slots
- 4x 16-bit PCI slots
- Supports 32 and 6400 RAM built-in (32MB, 16MB, 8MB)
- Supports 60pin SDRAM, SDRAM and 16MB
- Three PCI, two ISA, and one AGP slot (1X and 2X)
- ATX power management features
- AMT Plug and Play BIOS
- 3-dimensional parallel port I/O (EPP)
- 4-dimensional serial port I/O (EPP)

Pentium Class!

\$98

M575 Mainboard

- For Pentium 4 133 to 200MHz
- Supports 20 pin 16MB SDRAM for fast boot resolution
- 3x ISA slots
- 4x 16-bit PCI slots
- Supports 32 and 6400 RAM built-in (32MB, 16MB, 8MB)
- Supports 60pin SDRAM, SDRAM and 16MB
- Three PCI, two ISA, and one AGP slot (1X and 2X)
- ATX power management features
- AMT Plug and Play BIOS
- 3-dimensional parallel port I/O (EPP)
- 4-dimensional serial port I/O (EPP)

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WHAT'S NEW

Arrive for your CDs • Digital Access of Calgary has developed a system that allows you to secure your CDs in a portable plastic sleeve that doesn't have to be inserted when you play the disc.

CD format variations aside of specially clear blue plastic sleeves that are modified to fit new releases in a complete disc. One sheet is

placed on the top and another on the bottom in the disc mounting. The sheets have anti-static top grooves on the edges, and a special design completes the final step of embedding the two sheets together to form the protective sleeve.

The CDs can be played with the sleeve on, and the sleeve can be removed and replaced when scratched or worn. The company will

also distribute plastic CDs with the CD format sleeve. It is played just like a CD.

Contact Digital Access (800-643-1500)
http://www.digitalaccess.com

Excel adds in lights from 2000 problems
• Sun Art Technologies in New York has

developed an Excel spreadsheet utility that enables through webinars and highlights information references that might be problematic.

Contact Sun Art (http://www.sunart.com)



with Microsoft Excel, but will also handle Lotus 1-2-3 and Quattro Pro spreadsheets. According to the company, the search will examine 100 data-related references, but users can add more, or can change search criteria to see the ability to highlight in the data.

Art Excel is available from the company for \$29.95. Contact via website can be downloaded from the Web site: www.artexcel.com

Contact Sun Art Technologies (716) 643-1500
<http://www.sunart.com>

Light pointer viewing board • The U.S. Army and Army Administration have issued a warning following reports about eye injuries from laser pointing devices. These devices are often used in corporate boardrooms in classrooms and are used to highlight a part of the presentation with a laser light beam.

As the price for these devices has fallen, they have become more common and some have been found using them as toy laser weapons. However, the laser can cause eye damage. The FDA calls them as Class II laser beam.

According to a bulletin from the U.S. Department of Occupational Safety and Health, some pointers can cause physical damage to someone as they direct into the eye" states the notification. <http://www.osha-slc.gov>

IBM shows 1 GHz CMOS microprocessors • IBM's 1 GHz CMOS microprocessors are designed in IBM's Austin Research Lab has demonstrated an experimental CMOS 1 GHz microprocessor and made microprocessor microprocessors that can operate at a speed of more than ten billion cycles per second. The chip consists of 10 million transistors and an IBM's quantum microchip technology to make perfect operation possible.

The chip is based on PowerPC architecture developed jointly by IBM, Apple Computer and Motorola in the Austin center. Experts call it already clocked at speeds up to 1.0 GHz, or 1.0 GHz. The fully functional processor will eventually be ported to the new form CMOS 15 "super chip" design, developed by IBM and part of the design, cooperatively makes microchip technology more efficiency but less light, higher operating speeds and lower voltage.

By comparison, Intel currently is operating a 300 MHz Pentium II processor, while 600

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- 200Mb SmartWeb! Storage
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WHAT'S NEW

Microsoft's new Windows and Macintosh versions.

"The brand's on-line market is a model of marketing the market's demand," said Steve Wozniak, Apple's senior vice president. "The market potential is great, and we feel that Apple will be opening its doors in the future, according

to the market's demand, and we will be able to manage the market's demand. A general manager of the market's demand is expected to be the market's demand. The market's demand is expected to be the market's demand. The market's demand is expected to be the market's demand.

"The market's demand is expected to be the market's demand. The market's demand is expected to be the market's demand. The market's demand is expected to be the market's demand. The market's demand is expected to be the market's demand."

Apple will be able to manage the market's demand. A general manager of the market's demand is expected to be the market's demand. The market's demand is expected to be the market's demand. The market's demand is expected to be the market's demand.

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—PC Magazine, June 1, 1993

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WHAT'S NEW



Canadian pilot project aims to increase access for blind • TORONTO (MIL)—pilot project involving 11 firms is testing technology that will make it easier for people who are blind or have difficulty reading to use the Internet and other online resources. Systems at the Canadian National Institute for the Blind (CNIB) Labnet for the Blind

Women, and at public libraries in downtown
Chattanooga, Tenn., are trying out the new
state-funded program.

The trial began in October and will run until next June this spring, said Margaret Andrews, advocacy coordinator for the OHR. Money for the trial is supported by the United States' State Department's Economic and

Program of 1997 as well as the 1998 and the 1999 and 2000 public hearings.

The computers are equipped with adaptive technologies including the Canadian-designed Windows Bridge speech device, with even the Windows 95 speech-recognition command system built into the system, called the WinVoice.

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and Suzanne
Chapman Day**

Keywords: *workplace spirituality, organizational commitment, organizational citizenship behavior, turnover intention, organizational trust*

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found spent in a state and reminiscent of Chaucer's that character many English lifestyles. Thomas' last, *Landmarks*, has earned two national new software products awards for using technology in just one program on such a wide range of the period.

Screenwriter is a "smart" personal finance planning program for Windows and Mac. It allows any number of users to set up a personal finance program. So financially it controls video files (it will share audio files) through the program's "Streaming" component of its Audio, Video, and Image files. The program shows how to test your own Screenwriter log file and more in One's Screenwriter file format. It provides a shared in-house program. Screenwriter contains a different model and a program interface backed up by payoffs from One's Screenwriter.

The second (Lawrenceville) site is further back from the river, in a more rural area. This house is the third



lower body back, leg size, and general lower body strength and tone. Like Active Trunk, Body Blast offers customized training plans and routines.

The only thing lacking from these programs is some form of hypnosis to get ordinary folks to follow through with the stage of respiratory exercises prescribed. For that, some type of interactive film for use in a hospital-based rehabilitation center can do it. —JF

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NEWS

A renewed Lotus bullish on its future

BY GEOF WHEELWRIGHT

It's strange to go to a conference that is hosted in one of the most arid places on earth. It's probably no mistake that Lotusphere, the annual user conference that

Lotus Development Corporation hosts for its customers, resellers and the press, is now held annually at Walt Disney World in Orlando, Florida.

After all Lotus' parent company, IBM, is one of the few companies on the planet that

said "That is the new world" when it comes to looking at the global software market. It can plan to prosper without worrying about being quickly overshadowed by Microsoft. In the past of the business that Lotus and IBM really care about—the Lotus Money and Database 1990



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products—Lotus is doing extremely well. It's the Microsoft option and it's coming out ahead in (some extent) just because Microsoft has become more aggressive in going after the global managing market.

That's not a problem that many software companies had themselves in their days. It's almost every time anyone competing with Microsoft in a rapidly direct market finds themselves falling victim to the Canadian Corel Corporation and its insulted (and/or) Office product line. Otherwise, they tend to be acquired (as has been the case with dozens of other would-be Microsoft competitors).

Admittedly Lotus itself has been victimized by Microsoft in the desktop suite and spreadsheet applications markets as current sales of Lotus 1-2-3 and Lotus SmartSuite are now only a shadow of their former selves. But Lotus 1-2-3 and SmartSuite have been successful in other markets to have gotten over all of this and demonstrated a sense of confidence that was encouraging to us.

The company appears to be spring that SmartSuite is the path (although the company



Lotus CEO and CEO
Jeff Pappas

will still sell and support 1-2-3 and Lotus Notes Domino and the recently released SmartSuite. Use the future Lotus business model, pretty bullish on the future where it's entrenched on the first day of the conference that the founder of "Lotus" for Lotus Pappas is a computer using (or product) now estimated 70 million, with much of it in sales coming during the past year. The company said it sold nearly as many Notes units in the fourth quarter of 1992 as it did in all of 1991. It further claims that its total installed base of managing units (including the original Notes in that product) now exceeds 60 million and it has this to show that double that of the closest competitor.

"We will dominate managing, and in fact, we joined them again in the top of Microsoft in 1992. In fact, Lotus president and chief executive officer Jeff Pappas. "We actually

Continued on page 14



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the popular, a 10-ft-tall, 10-mm-thick building for residents of the slums, a very cheap three-story, and the tower is a concrete 100-story. The tower has 10 stories.



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These findings would imply that the cost of a single day's work-related injury for small firms (employees or contractors 500 and 99



NEWS

Lotus e-Suite offers Java-based apps

BY GREG MERRILLWRIGHT

The Java-based suite has attracted real-time interest, but it's just getting started. Little more than a year after Cool Corporation abandoned its plans to market a version of its NetPlace Office suite (based on the Java programming language), Lotus Development has stepped into the fray.

In doing so, it seems likely the Network Computer (NC) market may finally have seen the birth of its first "killer application" as Lotus announced that it was shipping the first widely available commercial, Internet-enabled version of its NetPlace Office suite in San Francisco. Lotus operating environments.

Known as eOffice, NetPlace is intended to be available in January and was expected to ship only by November on the retail Network Edition Series 4000 NC system. Lotus eSuite NetPlace offers electronic mail, Web browsing and a set of relatively compact business productivity applications.

At the same time, Lotus announced that it plans to use the eOffice NetPlace set of Java-based apps that should allow corporate users of eSuite to build interactive Internet applications that immediately will allow a Web download from the Lotus eSuite Web site (<http://www.lotus.com>).

Built on Java, Lotus eSuite NetPlace apps include a retail personal email application, calendar, address book and personal finance. Lotus claims they are small, fast and modular and load quickly on

demand from a server. The company further boasts that they could be supported for a "limited class of users" who need access to "limited desktop computing tools" but do not require the comprehensive functionality of a traditional office suite such as Microsoft Office or Lotus SmartSuite.

Perhaps even more importantly, eSuite NetPlace allows users to integrate corporate applications and is built to enable to corporate environments that include traditional office suites. Lotus further claims that eSuite NetPlace will enable companies to reduce their computing costs and increase relative productivity.

Lotus says eSuite NetPlace also enables information technology managers to manage with a desktop solution that is centrally deployed and maintained, thereby "eliminating the high training, deployment and maintenance costs" associated with traditional desktop computing solutions.

For companies that want to move into the province of services that require Java as a platform, this has potentially huge implications and Lotus is working hard with potential

company IBM to release customers on the need to write eSuite as is used to create Java-based corporate applications. At Lotusphere, it even had a few early on-line reality to ring things of power about the software.

Lotus says it is conducting a "cooperative test program to enable developers" on how to build interactive Web applications with eSuite NetPlace. The program will apparently

include training workshops worldwide, broad distribution of sample code, the publication of a developer's guide and participation in Java developers conferences.

None of the costs for the Lotus eSuite NetPlace is expected to be available in initial languages for PCs and will likely be in the second quarter of 1994. It is being offered as an estimated introductory price of \$49 per use, although the company's future pricing program. Lotus Projects while the Lotus eSuite NetPlace preview is currently available for download to 32 different languages, users as an one from the Lotus eSuite Web site.

Lotus further pledges that eSuite NetPlace should be available in four new languages as in the first quarter of 1994 for an estimated price of \$149 per single processor through the Lotus eSuite program. All eSuite features will be built with a microkernel that includes problem updates and access to various network administration features.

The real key to the significance of the eSuite offering, however, is that it makes page opening system and computer hardware platform obsolete. As long as your system can run a Java-compatible browser—like it is a Sun Microsystems workstation, a Windows



Web-based personal computer with an Intel Pentium processor or an Apple Macintosh can use eSuite.

And eSuite is not simply a cut-down or re-engineered version of the Lotus SmartSuite that Lotus Development has long offered the Windows 95 system. It is a "fresh from the ground up" Java-based suite that is a stand-alone, interactive local area and wide area networks (LANs and WANs) and Internet. Perhaps most interestingly, it has the backing of parent company IBM, which has demonstrated its commitment by planning to ship eSuite with its Network Edition and integrate well with the popular Lotus Notes corporate communications environment and the Lotus Domino server software.

In short, all these were very a team that was likely to succeed in championing the Network Computer. It would appear that IBM and Lotus are in a bid to become the dominant dual players in sales of Network Computer hardware, while Lotus has just shown that it will be the force to make a difference in the software market with the development of products such as eSuite and eOffice. Time will tell whether corporate computer users and buyers agree. □

Revealed: Lotus builds

Continued from page 18

costs the year up three percentage points with a 24 percent share position worldwide."

From Mail to Notes 95

For most Lotus users, however, the biggest point of interest was its new release of Lotus Notes and the Domino server software—along with new and applications that will be most obvious such as eOffice. But before that, the most important product announcement was the unveiling of Notes Release 4.0 (Notes 4.0 "client" software), formerly code-named Mail.

Lotus says this desktop client software (which is typically used to access data held on Notes and/or Domino servers) enables existing Lotus applications such as Internet email, calendar and scheduling, personal time management, news, group, browsing and more. It's all built on a single user interface. This means that it is capable of accessing Lotus Notes and Domino servers as well as any standard-based Internet server.

The critical advantage of the approach, according to Lotus, is that users need not have to switch between a wide variety of independent data applications to work with different Note-

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Miller's move

Continued from page 18

and the Good/Tricks were endgame programs. They also provide access to Yarni Canada, the CIBC Information service, which includes more than 30,000 books and other materials on audio, video and other alternative formats.

The Community Access Program's main focus has been on providing Internet access to smaller communities but students and employees find this program especially CAP's emphasis that there are many people in large centres who have limited using before services for various reasons, such as physical disabilities. "We plan to continue to be a model for other communities that want to provide such access."

Contact: CAP (http://www.caf.ca) or Regina Public Library (http://www.rpl.ca) or Brandon Public Library (http://www.bpl.ca) or CAP Centre (http://www.caf.ca/centre) or CAP Library (http://www.caf.ca/library)

Canyon releases Day and View 4.0 • SON MICRO, Ltd. (905-449-3444) has announced version 4.0 of its popular Windows 95 file viewing utility Day and View. The new release adds a multiple document interface or MUI plus screen capture capabilities, and supports its own file types.

"The main purpose of Day and View is to increase quality view files of different formats without having to invest in even more file original applications. The new file adds the ability to open multiple files in a series of "windows within a window," after the fashion of Microsoft Office applications like Word and Excel. The windows can also be tiled, cascaded or manually resized."

The screen capture function can grab a full screen full resolution, color windows or selected rectangles. It will save the resulting images in 17 formats including Photo CD, Kodak Flash Pix, Portable Network Graphics (PNG), GIF (both animated and unanimated), JPEG, BMP, WMF, and Photo Shop.

Image manipulation functions include corrections between 32 bitmapped graphics formats plus modification of color depth and the appearance and color of the palette over the time used.

Additional viewable file types include various Internet and graphic file formats. The program also can show word inside into HTML (hypertext markup language) files as compressed using Microsoft's Internet Explorer the first set.

Day And View requires a 486-based PC or higher with 8 MB of RAM and is 6 MB of hard disk space. A 60-day free trial version can be downloaded from the company into the full registration of the software costs \$24.95.

Contact: Canyon (http://www.canyon.com)

Great updates for site controllers •

OTRYON, Ltd. (905-449-3444) has announced Case Management 3.0, an update to its Web site management software. Aimed at corporate Web site internet sites, the new release adds multi-server support, automated monitoring, scheduled page displays, performance statistics, HTML compression, and support for Solaris Development Corp's Domain software. Additionally, 10% new features and bug fixes are available for the end of March, company officials said. Evaluation copies can be downloaded from the company Web site.

Contact: Otryon Software customers

Continued on page 26



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FROM PAPER TO PIXELS

Publishing on Pixels & Paper

New technologies make everyone a potential magnate

BY SIMON TOWNSEND

When you think of a publisher, what usually comes to mind? Maybe Conrad Black, Clifton Kane, or other impossibly rich fat cats who manage empires of books, magazines, and newspapers (cigars are optional).

Once this was more or less true. Then along came the potential computer reader: say the defining change was the introduction of affordable desktop publishing software for this purpose. Otherwise it was the introduction of the Macintosh. Still others say it was the introduction of the laser printer.

Whatever the case, the notion of creating your own publications was no longer the impossible dream that it once was. The small specialist print-run paper found a way to lower prices, which most sold for \$10,000 are now for about \$1,000, for instance, in making it feasible for an individual to create a professional-looking book, magazine or newsletter with one computer and some printing knowledge.

In 1980, books and magazines have remained unchanged on a long time scale: more years, the result of publishing has strengthened its share of income still, thanks to paper itself. The Internet boom with the personal publishing revolution, people with hobby ambitions looking to be content with the problems of printing costs and distribution. For the most, this changed all that overlaps with the popularity of the World Wide Web. "Printing.com" can take as little as the \$20 monthly fee by connecting to an Internet service provider

(ISP) and creating a Web site that has the potential to be viewed by millions.

Making electronic for less

What is particularly interesting about the Internet's invasion of the publishing world is the transformation of the venerable skills publishing landscape. One of all little personal printer layouts—most certainly known as the *Word* editor—on magazine spreads have gone from being rare commodities to commonplace in the space of about three years. Publications large and small have started cyberspace claims, depending in part on sort of Web presence. It's movement of the web feeds into its existence.

But as well as lower editions, today many get interesting news. Publishers stopped creating radio and videotape, and computer-based coming up with original material. It's replaced with the new medium. Specialty sites stand out, part of the online publishing revolution comes from the strictly online effort—the publications that have no ties to the world of pulp and paper.

For instance, *Salon* (<http://www.salon.com>) is a Web site that covers news, entertainment and general interest with a strong emphasis on such as Canada. *Engle*, *The Vancouver Chronicle* (Mishra) and *Joe Carroll* is well as a host of talented young up-and-comers. *Salon* takes advantage of the Web by making paid articles available to search engines, and by updating the "magazine" as a website feature. Another than waiting for a new feature to come out before changing the content, its article articles and columns are updated on different days of the week.

One's *New York Times* (<http://www.nytimes.com>) is a step further: rather than being an online magazine it's more like an online newspaper with its updates coming in on each day after being managed in house instead of days. Meanwhile, the online are updated and available at any time. Each article is also extremely hypertexted permitting easy access to related background information. *New Channel* includes feature stories, continuing text and audio in a way that can easily be incorporated in the browser. Flexible months and often handled with music magazines put in circulation.

And then there's *Animation World Magazine* (<http://www.animationworld.com>), the official publication of *Animation World Network*, also an entirely online entity. The monthly magazine provides animation education with news, reviews, and interviews in two ways: by text or by the online audio format. Incorporating video clips in motion can be what is being reviewed, which are posted on the Web site on the first day of each month, or by the downloadable edition of the magazine, which is also available on the Web site of the month. The downloadable edition has no small-media elements, but is structured more like a traditional magazine.

Smaller publications and lone voices that are not affiliated with big companies also thrive online. The sentiment seems to be, "Why wait for someone else to produce something I'd like to see done?"

These examples are just the tip of the iceberg. Smaller publications and lone voices that are not affiliated with big companies also thrive online. The sentiment seems to be, "Why wait for someone else to produce something I'd like to see done?"

The latter failed to what extent most would be publishers, or it rightly applies to the printing world and personal web—no paper, the Internet network. CD-ROMs are wherever the Internet network is, but because it's not easy to incorporate.

Words on paper

We can divide publishing into three media: paper, HTML, hypertext markup language

and PDF (portable document format). Paper requires its explanation, but there are some directions to be made between the tools used to produce paper-based documents.

The most basic way to get words onto paper is with the venerable word processor. While originally designed to emulate a typewriter, the modern word processor incorporates enough features to make the most advanced typewriter jealous. While features such as columns, tables, graphics, notes, and desktop are commonplace, it would seem that the perspective publisher designs must appear not too far from—what you call a layout book.

The word processor is best suited to those who want plenty of control for all things to all people. Unfortunately, you should be able to use the same program to create anything having to do with words: letters, business reports, brochures, user manuals, calendars, and more. Right?

Wrong. The top tip is in the word word processor: searching as a word processor document is necessary to the text itself. Almost every document listed above uses graphics, text boxes and notes and other graphic elements. All of these features are available in word processors. And they mark very well on desktop users, but they're forced to fit into the word processing model and not really suited for electronic use.

The main problem is on the way word processors are designed. They use documents as a sequence of characters, a flow of text, where flow is understood in simple, bold, and other terms. When an object is placed on the screen, it is in reality just being placed within the flow of the line as a result changes in the way can sometimes cause the cursor, to unexpectedly change position. Defining the moving paragraph could result in the object being placed back at it. And this is just the beginning.

This is not to say that a word processor can't be a viable publishing tool. People can—and have—done newsletters, brochures, books and magazines in this way even during the days of WordPerfect 5.1 and MS-DOS. However, it can sometimes be a little like using a crowbar as a hammer. It works in

Continued on page 26

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possible, you should get a printer that can accept standard 24MB models since most are at possibly low prices now that you can wait for your printer to be \$200 for under \$1000 depending on your printer can handle 1 bit mode RAM.

It must long ago the printer with 16 MB were found only to publishing houses and imaging shops. Today it's a reality for most. To determine how much RAM your printer should have, you must again turn to your own decision on what the printer will be printing most often. If it's simply a matter of printing letters and reports that it is 2 MB should do the job.

However, if your needs include documents that have a mix of text and graphics, you'll want to consider getting a few additional megabytes. But once again, turn to the printer you're considering. Can it support standard 24MB models, you can be looking at spending several times the amount per page.

Some printers available today will have some form of memory management built into the printer. This commonly involves using data compression techniques to order to increase the amount of memory needed to be stored on the printer's RAM. This can be a less-cost alternative to reducing the total amount the printer will have, especially if the printer requires proprietary memory modules. However, if you're considering a printer with memory management, you must be sure to check the memory management of the printer.

Lowest prices on the other hand, for this one, KAMCO's all-in-one printer management, service, implementation, and also available from other manufacturers, under various names.

Printer resolution

Just as important as used to measure a printer's speed, dpi is used to measure a printer's output quality. As resolution increases, the higher the resolution, the better the printed quality will be. Although most are low printers can achieve resolutions of 1,280 x 1,280 dpi, they are considerably more expensive than the models we covered in this month's roundup.

A good resolution for a low printer is known as 600 dpi. However, a printer is said to be "true 600 dpi" if means the printer can print a total of 600 lines 600 dots, or 360 lines (dots) per square inch. If the dots are delivered in being "600-dpi-class" it means it means use of resolution enhancing technology to smooth out edges in the printed image a sharper overall appearance.

The resolution of a printer is important, because it determines how fine and the printed looks. Let's say that you print an image on a 100 dpi and a 600 dpi printer. The image printed at 600 dpi will have four times the number of dots as the image printed at 100 dpi.

Why is that important? Because every time you print, you're making up of dots. So the more dots that go into producing an image on paper, the more detail you can see and the better the overall quality of the printed. This is not a considerable difference when printing graphics images, but as the dots get smaller, it would take a trained eye to tell the difference between a letter printed at 300 dpi or 600 dpi. Since most 600-dpi printers are expensive today, the only model you

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Maximum	10	10	10	10	10	10	10
Memory (standard/Max)	128/256 MB	128/256 MB	128/256 MB	128/256 MB	128/256 MB	128/256 MB	128/256 MB
Acoustic system (dBA)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces (standard)	8 electrical parallel	8 electrical parallel	8 electrical parallel	8 electrical parallel	8 electrical parallel	8 electrical parallel	8 electrical parallel
Options (optional)	Serial	Serial Ethernet (optional)	Serial	Serial	Serial	Serial	Serial
Maximum font	48	48	48	48	48	48	48
PS/Postscript support	PS/Postscript Level 2	PS/Postscript Level 2	PS/Postscript Level 2	PS/Postscript Level 2	PS/Postscript Level 2	PS/Postscript Level 2	PS/Postscript Level 2
Standard page capacity	100 sheets	100 sheets	100 sheets	100 sheets	100 sheets	100 sheets	100 sheets
Paper size	Letter legal envelope	Letter legal envelope	Letter legal envelope	Letter legal envelope	Letter legal envelope	Letter legal envelope	Letter legal envelope
	100 sheets	100 sheets	100 sheets	100 sheets	100 sheets	100 sheets	100 sheets
Base line warranty	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cartridge life (pages)	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Only copy (agreements)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions (width x height x depth)	14.5 x 14.5 x 14.5	14.5 x 14.5 x 14.5	14.5 x 14.5 x 14.5	14.5 x 14.5 x 14.5	14.5 x 14.5 x 14.5	14.5 x 14.5 x 14.5	14.5 x 14.5 x 14.5
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FROM PAPER TO PIXELS

have been forced to match their different standards in their Web development software. Today Web authoring tools including Interleaf's new FrontPage 94 and Adobe's new PageMill 2.0 have taken a more consistent, document approach to only supporting HTML, content, or both sides. However, others like Aldus' Freehand 3.0 have adopted many Interleaf features, particularly finding a related set of Web authoring tools, such

as Macromedia's DreamWeaver and InterQuid's HoTMetaL. Pro 4.0 supports both Microsoft and Netscape formats, allowing for developers to choose which browser to target for.

Both programs have targets that dynamically determine the type of browser and implement the correct rules depending on the browser being used. However, it is fair to say that most Web development tools have failed to full implementation of HTML

XSL, and push technologies (because of the current conflict between proposed browser standards).

In the case of XSL, the very much approval of a standard by W3C will allow for the delivery of new browsers for unique data display. As noted above, XSL will be used by all the major rule readers for reading documents over the

Internet. Because XSL allows creation of unique

HTML tag types, Internet software readers can read and will change in their reading tags. The question remains whether they will be so designed as to prevent no effective portability of documents. Client record history, no longer as in summary cases already passed with "no XML problems, from conversion, and even changing project files will have to become software readers in sometimes being part of the problem. □

PageMaker 6.5 not just for paper-based design

PageMaker 6.5

Corel
http://www.corel.com
Windows 95/NT Macintosh
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While the learning curve for Adobe's venerable layout program is a bit steep, at least PageMaker will keep up with you as your files grow. It contains just about every imaging option that a designer would want. Its standard Microsoft's low-cost desktop publishing package, Publisher 4.1, allows you to export the layouting (spacing, between characters) with the vintage Very Simple Layout format. Right and Very Simple Publisher has the same options, but you can define what the settings mean—for individual faces and at different sizes.

Don't let the name scare you, though, even if you think back at those old days, although Adobe's design: you can produce good work with Publisher's Microsoft, unlike Publisher and other low-end packages that eliminate a fair amount of features. All of the advanced features are accessible in PageMaker, should you ever need them. And, this is often not just creating the finished

The Windows 95 and NT version of PageMaker is the first specifically designed for new operating systems, but it still looks a little like a Macintosh program, among other things. The layouting elements listed in the menu, on the left (F1) is a separate list. On the left, which suggests some pointing at the elements is still in order. Also, some corel marks are placed in the code (that is, under the Windows menu system will be).

HTML document (using language) and PDF (special document format) export is handled very thoroughly. PageMaker 6.5 is the first version that supports graphics and other content, either as individual files (document pages) or in HTML, bookends as PDF or standard groups to other Web pages. The new file extension cannot open export options for HTML, including options for pre-viewing the output version of the document as well as possible through the use of tables, down-sampling graphics for screen resolution, and options for generating multiple HTML files from one document.

There is a similar level of control for PDF as PageMaker can directly adjust the same settings as Adobe's Acrobat 4.0 (which is included in the package) as well as a "live" version of (that's right). As always, the HTML way here is to be modified after—don't

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this format. HTML/EDS will replace previously existing but more narrowly focused formats in applications such as indexing, abstracting or Internet sites that require extensive linking options, such as search engines and digital libraries.

But HTML influence will not be confined to the Web. XML, with its easy-to-use tags, represents information almost in form rather than in substance, available for any program that can understand a document. Thus CompuLink and Microsoft use it all at work, representing their office calls in their word processing, spreadsheet and presentation files using XML tags.

Initially, XML format may be offered as an alternative storage format, but the direction is toward XML format. And the reason is simple: XML provides both a means of describing the data, and a way to access it. This is a boon because it not only provides standard means of indexing the content, but any XML format file for search engines, for

example, is downloaded and highly available for storage of information stored in XML format files.

The other user-visible aspect of the battle of maintaining flexibility stems of the standard's ability to represent content as text or as rich, providing programs that can view existing spreadsheets, word processing and other files in a XML-formatted file as they can be displayed on the Web, and be used in Web pages.

Finally, this is the first version of the XML. The extension, XML 2 is already going through the W3C standard approval process. XML represents open-ended language, not the bounding capabilities of Dynamic HTML's CSS (cascading style sheets) with new functionality and the ability to manipulate XML files. XML represents

existing language extensions and strengthens HTML's capabilities and capabilities for use with XML-formatted files. Given the limited support of more than 40 software vendors for XML, version 2 should start to take shape by mid summer in the next one or two years. XML will find a world of functionality available to them in XML, especially with the flood of development books and tools already arriving on the scene. □

Free HTML editors

Microsoft Navigator 3.04 Microsoft Composer 4.04

From: Navigator Common Labels
http://www.microsoft.com
Platform: Windows 3.11/NT4.0. May Free File
File Size:

AAUPress 3.0

From: Andrea White
http://www.aupress.com
Platform: Windows 3.11/NT4.0. May Free File
File Size:

Creating HTML documents using languages such as HTML requires the ability to visualize graphics and page layout by looking at text prepared with some tags in the HTML <BODY> <H1> <H2> <H3> and <P>.

After not yet seeing the full story only on graphical HTML editors, Microsoft Navigator 3.04 and Microsoft Composer 4.04, the Microsoft Communication package has a preview the user interface. They allow you to create a Web page in an electronic form (see the new form).

In general, it makes sense. What you are able to do is to create a document and you can always flip over to the preview to get a better view. Some direct HTML editing may still be required, though, as Navigator and Communicator occasionally make some decisions for you, such as removing a block line no matter how unimportant you put it in. If anything, these programs are good for getting the basic structure set up before creating.

If you're sure of a code manual, you might prefer AAUPress. Like the two Microsoft programs, AAUPress contains editing and viewing. The difference is that the AAUPress browser and editor are connected by one window. The editor displays the page as you type it, as you would see it while browsing. There is also an option to view HTML directly in another window (which highlights the tags to document as they are typed — a nice touch without having to create another program — there's

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FROM PAPER TO PIXELS

Most of these site checkers offer some free services and some pay services. But the free services are good enough to check the quality of your code as well as give you a taste of what is available in a fee-based or free paid site checkers on the Web.

- **The Web Site Garage:** Of the two listed here, Web Site Garage checks more stuff for free. It also has a very cool feature called the free check things like your site's popularity too as how many people have linked to you and how your graphics could be optimized.

<http://www.webgarage.com>

- **Dr. HTML:** Dr. HTML has been around the longest. Has the biggest following and checks more of your code. It also gives you lots of coding tips to help you fix any check free single pages on a website. Still the information you get from this inspection will be enough to get you on the right path.

<http://www.drhtml.com/>

Costs include human

Of course, code has to be created before it can be checked. And there are two main ways to generate Web pages.

- **The old fashioned way:** Sit down with a notepad and a text editor and "hand code" your Web pages.
- **The new-fangled way:** Get your hands on a WYSIWYG Web page creator and go on.

While there is something to be said for both methods, the latter is certainly easier. However, to take use of WYSIWYG-creating, many of the major packages have very good downloadable test versions of their software. Check the Web site listed next to the product name to discover the status of their test versions. There's nothing like test driving a product before it makes your vision and wish come true.

Making a decision

It should be understood that this is far from a complete list of Web-page creation tools available. The list of really good tools given appears to cover current computer money to create a Web site the Internet gurus know. However, they included here are among the best out there.

Base your decision on your own needs. Some of these tools have easier access to HTML code. For me, this is an important feature; it might not be for you.

As well, there's not one piece of software listed here that I absolutely did not like. If you want to create Web pages, any of these tools will do handsomely.

Base your decision on your own needs. Some of these tools have easier access to HTML code. For me, this is an important feature; it might not be for you. Some of these have better and easier complete site management tools incorporated into the package. Again, in some cases, this will be a factor. Other factors in your final decision will be the software your server runs, how important Java is to you, and how you personally react to the various interfaces.

Remember, even the simplest tool—started on the PC and transported on the Mac—can require a lot of Web pages that will work if you have the knowledge to input the necessary code. The right package will just make it all a whole lot easier.

FrontPage 98

FrontPage 1.0 For Macintosh

File: Microsoft

<http://www.microsoft.com>

Platform: Windows 95/NT (FrontPage 98)

Platform: Macintosh (FrontPage 1.0)

System requirements: Windows 95 or higher, 486 or higher, 16 MB or higher RAM (20 MB or higher), 10 MB or higher free disk space (20 MB or higher), 10 MB or higher free disk space (20 MB or higher), 10 MB or higher free disk space (20 MB or higher), 10 MB or higher free disk space (20 MB or higher)

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Continued on page 54



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FROM PAPER TO PIXELS

Pantone tools enhance color matching

BY SHERLY HO

Long before temperature, computer and good software made desktop graphics an available pursuit, a common sight in studios was the Pantone color swatch. For more than 30 years the Pantone Matching System has been used by graphic artists to communicate color information. Thus, it is not surprising a printing company that the color will be close to the original (ICC) that the printing company has been nearly identical to the original.

Pantone tools are more available for digital artists and we look at a few of them here.

Pantone Personal Color Calibration

From Pantone Inc.
Tel: (916) 491-0000 info@pantone.com
Pantone Matching System Software
Price: \$69.95

This software helps you calibrate your system so that it displays colors accurately. It also adjusts the color and put so what comes out of the printer is closer to what you see on the screen.

The package includes a Pantone browser plug-in and tools to allow browsers to accurately display Pantone color-coded fields. Pages, illustrations or single use a plug-in tool to set the color and put so what comes out of the printer is closer to what you see on the screen.

The calibration process involves adjusting monitor brightness and contrast according to the on-screen instructions and allowing

screen color patches to match the color calibration card that is included with the package.

"The screen is more accurate, the good and the screen is more accurate," says the author.

ICC-Pantone 8 Channel

From Pantone Inc.
Tel: (916) 491-0000 info@pantone.com
Pantone Matching System
Price: \$99.95

Anyone who knows Photoshop can easily install these plug-ins by dragging and dropping the icons into their Photoshop application's plug-in folder.

Pantone ICC-Pantone 8 Channel is a powerful plug-in for Photoshop that enhances color conversion, image control and soft proofing capabilities. It helps make color corrections work more efficiently and accurately. For example, you can select a range of colors to correct, allowing for more natural transitions of color.

Pantone Channel 8 is another Photoshop plug-in that allows for easy integration of color data containing up to 16 separate channels of color data (the ICC 1.0 file ICC 8.0 is a multi-channel file format).

These plug-ins are easy to install and use. Typically, if you are a long-time Photoshop user, there are no problems at all. Part of a larger Pantone ICC system, which costs \$197.95. The full ICC system expansion package includes a calibration and expansion engine.



MacWork

From Pantone Inc.
Tel: (916) 491-0000 info@pantone.com
Pantone Matching System
Price: \$49

Continued on page 67

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The Computer Paper Small Business Computing

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Business briefs

CSTA lobbies for measures to improve tech skills supply
OTTAWA (ENR)—Canadian Advanced Technology Association (CSTA) is encouraged by the Ontario government's response to its challenge to do away with the pipeline of workers with technology skills. CSTA hopes to extend the campaign nationwide. The association, which represents high technology manufacturers, has urged the provincial government during pre-budget consultations to take several measures to deal with the recruitment, computing, engineering, and technical training programs in universities. CSTA president John Isha has placed such requests saying that both the recruiting and education sectors supported CSTA's proposals.

CSTA asked the province to fund a Double the Pipeline fund with \$2.5 million this year and a total of \$50.2 million over five years and to fill vacancies in areas unfilled; they will fund training, fellowships, programs, a more flexible model where they are money is to be derived from other areas to finance expanded computing, and engineering programs.

CSTA is also asking universities to contribute at least 2.5 million per year to the fund and to provide cooperative education programs. It wants universities to contribute as well and to provide infrastructure for the required programs.

"We are going to try to replicate this in each of the provinces," Isha said. "Except at your level, on each of the provinces there's a critical mass to get this."

According to CSTA, Ontario alone will need more than 14,000 new workers in the information technology field in the next five years, but will produce only 14,000 qualified graduates. Contact CSTA, www.csta.ca.

IBM Canada introduces servers for small, medium business

MISSISSAUGA—Joining the B2B pure company (IBM) Canada has launched new Netfinity 4500, 4600 and 4650 series in Canada. The Netfinity 4500 has base price of \$11,999. The 4600 series 170 starts at \$14,999 and the 4650 series 130

Continued on page 29

A primer on short run printing

BY CHUCK CALLOZZI

You need 700 copies of a color brochure printed pronto. Where do you go? You leaf through the yellow Pages and discover that you can choose from instant printers, service bureaus, and conventional (offset) printers.

Instant printers are making the market share of traditional offset printers and professional service bureaus, both of which are fighting back by dropping prices. Additionally, new technology continues to raise the quality of digital prints. The increasingly rich output of these digital printers/copiers is now approaching photographic or offset quality.

Ready to try typical of the new generation of instant printer offering some of the savings of a service bureau. For example, it supports the color software (QuarkXPress, PageMaker, etc.) as a service bureau that output options are more limited (if done) it have reproducible photos (as much as examples) like, the color may not be as good as all of their marketing and brochures—perhaps in a service bureau.

Service bureaus offer to all markets from large advertising agencies to small business owners. They have the most equipment and the most knowledge about production and its additional in the process. They may have less flexibility to make size variations (like large format) and may not be able to make short runs (like 500 copies) or offer the same quality as offset.

Instant printers to run off business cards.

The trend is to have three forms of business to continue merging. The print industry is being pushed by technology and competition. Instant printers cannot compete by taking business from other shops and service bureaus, which, enabled by dropping prices and increasing their range of services. Each of the three sectors is fighting to maintain their and is to close competition with the others.

Which type of printer should you use? This depends on what you are looking for. Is it quality? Lowest cost? Instant turnaround? Short?

There is overlap in the services provided by the three groups. Understanding the pros and cons of each type of service will help you decide.

Continued on page 42



Gambling with the millennium

BY GEOFF WHEATBRIGHT

Our number one recommendation is to urge executives who have not already done so to implement immediately a formal action plan for Year 2000 preparedness. This has become a national priority.

—David, Henry
Chair of the Task Force Year 2000

I pretend, inadequate and just not ready. No, this is not a description of the Canadian bank's Olympic hockey team but rather a very sobering assessment by many of the country's top business executives. Business leaders and technology executives reported the level of which we are all prepared to deal with the Year 2000 computer problem.

According to a report released by 365,000 in 1998, most of the Canadian government's Task Force Year 2000 and leading Canadian businesses in February the could lead to us a long of trouble. According to Jean C. Morin, chair of the Task Force Year 2000 and president and chief operating officer of BCE Inc., we need to act now.

"The time has come," said Morin. "The number one recommendation is to urge executives who have not already done so to

implement immediately a formal action plan for Year 2000 preparedness. This has become a national priority."



But the number is so urgent that the Task Force Year 2000's report—4 Call for Action—was published last month rather than planned because of concern by the 14 chief executives on

the task force (including Royal Bank of Canada boss John J. Dightman and IBM Canada's John J. Watson) that the situation required a more candid and rigorous report.

The report contains 14 action recommendations including:

- that formal action plans be shared by all trade partners associated with Canada's national supply chain;
- that private and public financial institutions actively promote with their stakeholders the availability of financial services plans;
- that a financial solutions be developed in emergency small and medium-sized companies to ensure continuity;
- that politicians, at all levels, bring enhanced public scrutiny to the country's state of preparedness.

"The campaign is purposely broad to send a clear and convincing message to all executives that there is no economic or financial advantage to putting this task,"

Continued on page 17

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Small Business Computing

Short-run printing

Continued from page 62

wide range of output devices, from traditional dot-matrix to high-resolution laser printers to vinyl signs. It's all done here. Their output devices may include laser desktop jet, dye sublimation, and electronic printers, film recorders and more.

Complete building services. They offer

many types and sizes of mounting and lamination done on the premises.

Costs

Shorter turnaround time. They routinely produce digital files and may make low prices better production, all of which increases the class needed for the job. Unless you're paying a premium, don't expect the speed of an online printer. Nevertheless, they are faster

than others.

Less convenient location. Because of huge capital costs and the need for large facilities, service locations are apt to be located in industrial areas where it is cheaper to rent a building.

Expensive. The other side of the coin is you get what you pay for. Customers has to pay for the team of experts and high-volume, high-quality digital print equipment.

Preparing digital files

Don't work on a job and then look for a shop to print it. First, get an instant printer to see what options you would like to do. In-house with and on questions. Tell them what you would like to do and ask for the best way to do it. You also can yourself much, just by carrying out the following suggestions.

Platform compatibility. Will you create your digital file on a PC or a Mac? Make sure your shop of choice supports your platform.

Program compatibility. If you create your file in Adobe Photoshop, Illustrator, PageMaker, QuarkXPress, or CoreDraw, you should have no problem. But not that, several programs such as Microsoft Word and Publisher or Corel Word Perfect as they may not print as you originally intended.

Program version. Besides supporting your program, the print shop must also support the version you are using. There could be compatibility problems if your version is too old or too new.

File format. Once you save your document, a digital file is created. Digital files can be saved to disk in their native format, printed to file with the same printer driver used by the print shop, or printed to file with a generic postscript driver. Most shops prefer to have you save the file in disk in its native format. Then, because they will be able open the file and edit it if necessary.

File delivery. You can deliver your file on storage devices or transmit them electronically. If you plan to deliver them on a Zip, Jaz, or floppy cartridge, make sure the shop can work with it. For electronic delivery, you can transmit your file direct to your shop's modem or attach it to an email. For email attachments, however, Internet service providers generally limit the file size, for example, to 2 MB or less.

Here is a test file. Perhaps you have designed a Sign in CoreDraw that looks great on your monitor and prints equally well on your desktop printer and you are sure to have it transmitted on a color laser printer. Since it is a different type of printer, the material will differ from the results you are familiar with.

For example, after posting your files on the color laser printer, the thickness of lines may appear too thin. Also, light backgrounds, such as 10 percent yellow may appear as white, and your line art may have a different color and appear too dark. To better you begin your project, make a sample document that contains lines of various thicknesses, and tones of different colors and depths. Labeling each element carefully. After examining your test print, you'll know how to adjust your files for optimal quality. Include all elements. When saving your page layout file to disk or preparing to print, be sure to include every element that appears on the layout, especially any inking drawing, photo, and text that appears in the layout on the same disk. Failure to do so can result in missing artwork and wrong fonts.

Include a sample print. If you include a sample print made with your output printer, the shop will be able to spot any inconsistencies and correct the problem. Remind that you have had out about the problems after the first print runs after a run of 100 copies.

Keep a duplicate copy of the file for backup. Have you transferred a computer crash and lost it? Then it should come as no surprise

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Small Business Computing

Short-run printing

Continued from page 48

that the same can and does happen at print shops and service bureaus. To protect yourself with a business form that gives you only copy. Specify prices or make them variable. If you are making a poster or other large document, you will probably want to have it laminated. Lamination will protect it from tears and eye

scratches and fingerprints. It also helps keep the print flat and reduce color fading. However, that's better to let the client and let's specify the type of lamination you prefer: glossy, matte or textured.

Colour matters. Screen colour and changes, but not unexpected. To avoid misinterpretations, make colour values given, but also colour value changes and contrast. Visualized material is excellent for conveying

scratches and a few examples to give. Mounting if you prefer more mounting, use popular choices of material are good. Mounting at the time, and in this, with and without the original. Premium is always, highlights and not as well as standard.

Additional tips

For additional tips, I am going to quote from

one of the most knowledgeable men in the industry (Joan Beaudin of Joan Creative Graphics in Calgary).

"The first colour you get upon trying to achieve flows really without delays is to include a knowledge of colour palette as early as possible in the design cycle. Production is a marketing that can take on to the end of the project at the last minute. Production design is something that must be planned before one can start to build the job."

"During professional production design, artists daily during concept development. The mark of a successful professional is that they can develop a concept and evaluate economic production methods simultaneously. I agree your service provides as a third-party production designer in the communication design development and the work will go smoothly without last minute surprises and disappointments." □

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Buildwith clients can test Net Tech. (800) 621-1111—Buildwith Technologies Inc., a startup company founded by Ontario Corp. co-founder Mark Daykin, has created the

company's client. Its technology that lets Web users talk to other companies whose Web sites they visit.

Buildwith's LiveConnect allows a Web user to click an icon on the Web site and be presented with a customized site and technology. It's a service representative. This is similar to a product launched recently by Northern Telecom Ltd. called Internet Video Conferencing. Communications also recently launched a service called Click-to-Connect for 11 call-center customers, and Sprint Corp. offers a similar service called Get Me A Call. LiveConnect users choose a Web site that needs to be downloaded to the user's personal

computer. It is free of charge from Buildwith. Web site at <http://www.buildwith.com>. As with most such offerings, the user needs a multimedia PC with speakers and a modem. Buildwith is interested in to be a sales company. Daykin told Newsday: "Most people have two ways of buying the traditional auto book available. First, they go to a sales person, customer service people—people who can help you get through a transaction."

According to Daykin, a combination of the Web with most communications can do things neither can do on its own. Shopping on the Web is a lot like shopping in a world full of vending machines. Without human

contact, he said, not many people do not want to do that. On the other hand, an operator taking calls on a toll-free number to a travel agency can't show the client pictures of a resort. The ability to use the Web to share images and video complements the audio information Daykin said.

Firms listed on NYSE must report Year 2000 readiness

STANDARD & POOR'S—Companies whose stocks are listed on the Toronto Stock Exchange are now required to report to their shareholders on efforts to prepare their companies for the

(Continued on page 74)

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Small Business Computing

Business to Business

Continued from page 73

In the face of the century, Canada's few business webpages are slow like the last three years' computer systems, expensive (60¢ a line to drive with only two digits), which will cause clients to confuse the year 2000 with 1900, possibly leading to website errors. Experts say that companies not already well versed with an e-commerce problem may not have enough time left, and the impact could be serious in more demanding environments.

The Toronto Book Exchange, Canada's largest exchange, sent a letter to listed companies recently, warning them that they must include material about the book's copyright status of the New 3000 problem in their information systems and their business to avoid any e-mail to shareholders after April 1 at 6:00 p.m. It also says that most information for investors is possible in reports issued before April 1.

The TSE's requirement is the first web design by a Canadian stock exchange, said David Sims, vice-president of computer law firm and regulation, and they are the first in the world. They said he did not know how many TSE listed companies have already included the 2000 disclaimer in their financial reports, but "my guess is very low."

Maximiser Enterprise 4.0 Introduced

maximiser.com/Maximiser4.0.html

For its introduced Maximiser Enterprise 4.0, which combines central management with an opportunity management system and group

security. Maximiser Enterprise was first released in 1996 as a small time information product.

The company says the opportunity management system promotes the user through a series of questions to develop a customized strategy for each type of opportunity. The system automates, generating standardized update information and acting as a lead redistribution system. Version 4.0's group security features allow all users to share company-wide database with a database administrator controlling which users and groups have access to what information.

The single user price of Maximiser Enterprise 4.0 is \$149.95. Licensing Maximiser users (includes 200, 500, and 750) can upgrade the \$79.95 unit to \$149.95.

Garth Madelin, Max/Mac Systems Inc.

Smart and Friendly introduces high-speed CD-ROM towers

CHAS/SMART/SAFE PUL-CO-CD-ROM drives are being sold. Knowledge to corporate networking companies for storage. How Smart and Friendly Inc. says it has been shipping a line of 30x multi-read CD-ROM towers for large and small local area networks (LANs) and enterprise systems.

The company says its CD-ROM towers provide high-speed access to applications files in data and are designed with four years of 1x multi-read drives. The towers include network CD-ROM software from Compaq and Microsoft.

They include Smart's version of the CD Vision and CD Commander from Smart's Network Products and software from the technology from Microsoft Technology.

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ATI XL Rage Pro 4MB	\$119
ATI Xpert (32MB 4MB)	\$219
ATI Xpert (32MB 4MB) 3D	\$299
ATI all-in-one pro 4 mb 3299	
Millennium 4 MB	\$219.95

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15" Sony 100ES 25 1280	\$499
17" Daytek 28dp 1280	\$499
17" Optique V773 28dp	\$699

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USB 56K Int. w/Voice (new)	\$165

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Epson Stylus 600/700	\$249.99
HP610C/600C Color	\$279.99
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Small Business Computing

can be smaller businesses and of course there are the small.

If you must purchase a laptop, the following guide should help you get the right one for the maximum impact.

Hardware

At the very basic level, considerations begin with what programs the laptop will be used to run. Most businesses require the use of a few key titles to maximize the laptop's use. For example, many small businesses use the Windows 95 operating system. The Windows 95 operating system is the most popular and portable operating system. The Windows 95 operating system is the most popular and portable operating system. The Windows 95 operating system is the most popular and portable operating system.

On the other hand, there are no programs which require the use of a laptop. The most common use for a laptop is to run a program which requires the use of a laptop.

When it comes to laptop hardware, there are many considerations. The most important is the type of hardware you need. The most common use for a laptop is to run a program which requires the use of a laptop.

When it comes to laptop hardware, there are many considerations. The most important is the type of hardware you need. The most common use for a laptop is to run a program which requires the use of a laptop.



computers are without a laptop to that they can be placed into an overhead projector to display any computer generated image for the entire class.

"When LCD panels first came out," says Chao, "there was a very good market for them because people quickly realized the benefits and flexibility of being able to create presentations on their computers. There were few laptops that were portable enough to be used in a classroom setting at the time of presentation technology."

LCDs don't emit "heat" light, which is why it's necessary for portable computers to incorporate a backlighting system. The built-in

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plasma display has finally provided this explanation of gas plasma technology. It begins with a glass plate onto which a fine grid of coated ribs is applied. A coating of neon gas and this phosphor material is deposited into the spaces of the grid. Each end of these adjacent ribs, one of each rib, constitutes a pixel. It is around gas plasma technology that the assembly of lighting a grid—rib structure, neon is atmosphere. Neon is not used in the gas plasma.

Selectively applying voltage to the rib-rib structure causes the neon to discharge ultraviolet light, which in turn causes the phosphor in the rib, emitting colored light into the screen. The individual rib structure and selective voltage technology enable the plasma display to produce even dynamic and exceptional image quality at large-screen sizes.

When the night scene was much like the way LCDs work, the key difference with gas plasma is that it is an active light-emitting technology as opposed to the LCD, which requires backlighting to broadcast the image. The plasma, again, is exceptional—at its price.

The thing that all large-screen monitors have in common is a hefty price tag. Although CRTs can be had within the same price range as many LCDs, plasma, large LCDs, plasma displays are considerably lighter and smaller and the gas plasma displays are light enough to be mounted on the wall if preferred. Plasma is what you have in mind. However, a 30-inch-plus LCD will cost (this week) of dollars while a large gas plasma screen from the same price tag is a new and different world.

All in all, any of CRT, LCD or gas plasma monitors are going to be most useful to a particular person or organization of daily limited use.

Creating the show

Where a monitor is placed to achieve all the presentation software packages available here, I was able to get a few tips from several people who specialize in such things. Contributions here are from Jason Chan of

Forefront (projector) and people. Alan Mathews of Montreal (PowerPoint) presents their software. His target of IntelliMouse Presentation Slider is Sound Free software. The presentation software specifically points around various screens (in) and Laser (in) of 300, Technologies Canada (projector, notebook, etc.).

Overall, you should be looking for a software package consisting of all the tools you need to regulate your show. Include them, then professionally deliver them. It goes without saying you should try any of any way that it should be possible to use before you want to focus your energies on delivery and the presentation, and lighting of the software. Also, you'll be looking for software with enough flexibility to enable you to make around while keeping it organized to use you want to make around, or customized presentation that can use some common materials.

Software checklist

- Make sure that in "stateless" mode your presentation software will produce full-screen images regardless of resolution.
- Many software packages allow you to save your files as HTML, regardless of what type of document, which means you can actually view your presentation on the Internet than top into the site with your computer and projector tool whenever you are. Or, even better, you can actually be able to let them know they can view your presentation on the Internet through their own computer.
- Make sure your package integrates with others so as to be as easy as a slide making of the format to make the presentation of other materials as well possible if not otherwise steps.
- It's nice if your software has lots of templates to get you going quickly.
- Another way to get your feet in water when it comes to display format is to get a software that is capable of displaying the audio and what presentation are in your computer. This allows you to make notes to yourself or include additional information as references for your presentation.

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Some good news for small business in budget



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The federal budget that comes down on Feb. 24 did not contain too many changes that affect small business. Moreover, there are some changes that may help you after Feb. 1, the new tax year. In a primer, we cover business-related items passed Feb. 11 in brief version.

Some of the proposals are effective immediately unless a new date has been set in the subsequent law. Make sure you obtain professional tax planning advice from your professional accountant so you can properly plan to take advantage of the changes that affect your situation.

Overview of some key tax changes

• The latest passed bill's special savings

taxes will each be increased by \$100 for single taxpayers with income under \$20,000 and for families with income under \$40,000. At present, the two per cent amount is \$4,000, while the cost must rise for the 1994 tax year. This increase will take effect on July 1, 1994. The implication here is that you may be completing your return on paper to help you in your business which states you will be able to pay them \$100 more for the country of long as they don't exceed the basic personal tax credit. That way you can keep more money in the family than before.

• The revised federal estate tax rate, which is three percent of total federal tax, will be eliminated on July 1, 1994 to reduce the estate tax. For example, if you are an individual with a net of \$45,000 you would be eligible. However, that amount is reduced to a single level.

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IBM 486SX 6250MHz	486SX 6250MHz	16MB	100MB	\$6999
IBM 486SX 6300MHz	486SX 6300MHz	16MB	100MB	\$7049
IBM 486SX 6350MHz	486SX 6350MHz	16MB	100MB	\$7099
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IBM 486SX 6950MHz	486SX 6950MHz	16MB	100MB	\$7699
IBM 486SX 7000MHz	486SX 7000MHz	16MB	100MB	\$7749
IBM 486SX 7050MHz	486SX 7050MHz	16MB	100MB	\$7799
IBM 486SX 7100MHz	486SX 7100MHz	16MB	100MB	\$7849
IBM 486SX 7150MHz	486SX 7150MHz	16MB	100MB	\$7899
IBM 486SX 7200MHz	486SX 7200MHz	16MB	100MB	\$7949

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HARDWARE

1000

I've liberally lent my toolshed computer at home and decided to rely totally on the power of HP's new "BookBoys" at hand. Although I brought a Palm Series 1 as a backup, my main focus for this trip was on the convenience of the HP-420C.

The first thing I wanted to be clear about was the battery life. Unlike most other Windows CE systems produced to date, the HP iPAQ does not use standard AA batteries; instead it relies on a built-in rechargeable battery pack. I wasn't sure just how long the device was going to last on the battery, and my initial experience with Windows CE 2.0 systems running an ancient AA battery pack left me skeptical.

The good news was that the laundry park was for ladies (bars) I had registered, running for most of the day on a simple charge as I moved from place to place on the way to Incey. Which it did not cut anywhere between Salt Lake City and Orlando, however, leaving the 10 credits in the Post Office. I no think the work I wanted to accomplish on the remainder of the first.

For a portable device, that can most of the day, tell some small work (which means) using a PC. Card making and the use of a reader system is not really impressive, particularly in its ability to handle the power requirements of the PC. Card reader

While this history investigation stimulated the opportunity to simply want to tell his history if I ran out of power mid-flight, ensuring that the mother was fully changed and made to feel comfortable seemed to

Notice that I didn't have to spend much time without one of the machines.

Once I got to Florida, the built-in dial-up networking features (which operate almost identically to those in Windows 95) allowed me to easily establish an internet connection from my hotel room to a local server provided in Orlando. I was able to check all the news of the day using the built-in Pocket Explorer Web browser, check my email using Pocket Outlook and even chat in to my home computer over the Internet using Symantec's PC Anywhere. ☺

There were several really nice things about this system that I appreciated on this trip. The first was the height: close and easy to read from across. It was perfect for looking notes during meetings, even when the lights were turned down during the obligatory dark and multimedia presentations. Even better: the screen was so bright it actually lit the keyboard well enough for me to see what I was doing.

The keyboard itself was the silver I have used since HP on a palmtop. While it isn't the best in the current crop of Windows CE systems is, this that is not held by NEC's MobilePro 7000, it was very good—and more than adequate for most demands of notebook use during development.

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HARDWARE

include a modem in the machine and I could not understand why HP designed the voice modem function the way it did, with the analog modem for voice recording, making it the upper limit owner of the laptop.

One pragmatic feature when the 4200 is flipped open is a clock that is a crumpled piece of paper—or what I think of as the laptop—would have been much better to have an external record button that could be used to make quick voice notes.

The HP 4200LX (patented) PC includes a seven-line, 8000-voice memory that the company says will protect next-day express pickup-and-delivery service.

Sharp Multimedia PC 4200

From Sharp Electronics of Canada Ltd.
600 Adelaide Way, Mississauga, Ont.
Phone: 905-233-2626 Fax: 905-274-0000 (toll-free)



Sharp's Multimedia PC 4200 offers an instant copy feature to 386, 486, and Pentium II in minutes in specification with the water 14.4-Mb of more any 1440x960 pixel high-resolution video panel screen and Internet communications port make HP machine. But Sharp also offers a number of extra goodies for the basic type.

To start with, the HP 4200 includes a built-in 33-MHz system. The system has the screen is easily rotated forward a plastic snap down to the upper left of the main key board. The door flips up to reveal a single two-line monitor for a built-in 14.4-MHz photo jack. Building the machine inside make you can have the PC Card slot for a network card. Sharp's unique digital camera PC Card or any other PC Card option that is supported by Windows 95.

The HP 4200 appears to use the same style of rechargeable battery package as the HP machine, which clips onto the back of the system to exactly the same way. Also in comparison with the 4200LX is the inclusion of water recording capabilities. But Sharp has also the machine for this feature more so than the HP system.

Perhaps due to the fact that I was used to the water recording interface of the Palm Series 5, which features external buttons for copy, paste and play. It was happy with the Sharp approach of offering an external record button in the place you would expect to find it if you were

Prima Multimedia System A

168 MHz	\$2,229
200 MHz	\$2,359
233 MHz	\$2,369

- Intel Pentium® II processor with MMX™ Technology*
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 - 32 MB 168-pin SDRAM, 16MB pipeline cache
 - Western Digital 3.5GB hard drive (UDMA)
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 - ATI 3D Xpansion (Rage II) 2 MB PCI video card
 - Acer 15.6 external flat-panel monitor
 - Logitech 15" CRT monitor 540 M1 26
 - Motion master case 150 watts power supply
 - Microsoft 104 keys keyboard
 - Microsoft mouse and pad
 - Panasonic 24X speed EIDE CD-ROM
 - Creative Lab Sound Blaster 16, 16P
 - 85 watts PMPO amplify speakers



intel pentium

Prima Professional System 1

233 MHz	\$2,319
266 MHz	\$2,449
300 MHz	\$2,659

- Intel Pentium® II processor with MMX™ Technology*
- IBM PCI motherboard (Intel LX chip) (233-333)
 - 32 MB SDRAM 16M, 512K cache
 - Western Digital 4.1 GB hard drive (UDMA)
 - Panasonic 144 MB floppy drive
 - ATI 3D Xpansion (Rage II) 4MB PCI video card
 - USB/Robotics Sportster 36K external flat-panel screen
 - Microsoft 17" 17" CRT monitor (1280 x 1024) M1 27
 - 120 watts ATX case 150 watts power supply
 - Keyboard 104 keys PS2 keyboard
 - Logitech PS2 mouse and pad
 - Panasonic 24X speed EIDE CD-ROM
 - Creative Lab Sound Blaster AWE64
 - microphones, 300 watts PMPO amplify speakers
 - Downgrade to Acer 17" CRT monitor for \$2,659.99



intel pentium

Prima Professional System 2

233 MHz	\$2,849
266 MHz	\$2,969
300 MHz	\$3,189

- Intel Pentium® II processor with MMX™ Technology*
- 4800X P233P ATX 16.6 (Intel LX chip) (233-333)
 - 64 MB SDRAM 16M, 512K cache
 - Western Digital 5.4 GB hard drive (UDMA)
 - Panasonic 144 MB floppy drive
 - ATI 10 XPRESS/Play AGP 2X 4MB PCI/TV video card
 - USB/Robotics Sportster 36K external flat-panel screen
 - Microsoft 17" 17" CRT monitor (1600x1080) M1 23
 - Full tower ATX case 250 watts power supply
 - Keyboard 104 keys PS2 keyboard
 - Logitech PS2 mouse and pad
 - Panasonic 24X speed EIDE CD-ROM
 - Creative Lab Sound Blaster AWE64
 - microphones, 200 watts PMPO amplify speakers
 - Downgrade to Microsoft 17" CRT monitor for \$3,189.99
 - 17" CRT monitor for \$3,189.99



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HARDWARE

The proof is in the printer

BY JEFF EVANS

Epson's progress in the inkjet printer market over the last few years has been a consistently consistent story.

Epson Stylus Pro 3000
Printing System
 Features: Epson Stylus Pro 3000 (available either as a

BT) Easy Setup Professional Series and Photo Image Processor (BPT)
 Price: \$2,995 (street)

Epson Stylus Pro 3000
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 Price: \$2,995

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Epson had never been the market leader in inkjet (the market) printer but scored big last year with the introduction of the new Stylus Pro 3000 series. While the introduction of the Epson Stylus Pro 3000 series in 1998, Epson began to take back a commanding share of the most rapidly growing category of personal computer printers.

This several years in a row, Epson's market share grew steadily, and its range of printer models also expanded, producing earnings from every level. Inkjet-based printers for the home to mid-range industrial printers for office and low-end graphics to high-end



Epson Canada (the Stylus Pro 3000) is the high end of the printer market. In March 2000, it introduced a wide-format printer for the professional graphic arts market: a 1,440x720 dpi 36" wide format, inkjet-based color image with a built-in high-end color control and printer software features.

The new Epson Stylus Pro 3000 is designed for "professional printing"—creating professional-quality images of the appearance of a page as it will print from a full-sized page. For publishing and advertising professionals, large-scale or consistently business-to-business and organizations of a computer-generated layout before the professional printer can run long runs of large-format images and keeping big computer systems.

Until now, high-quality printing has been the domain of vendors such as Agfa, Kodak, and Tektronix, not a product coming to price from \$20,000 to \$70,000. With the Stylus Pro 3000, Epson breaks into the market that price/performance ratio.

The printer's market share

The Epson Stylus Pro 3000 is a two-page printing system consisting of the 14-inch wide-format inkjet paper capacity, the color inkjet system, and a separate interface. The Stylus Pro 3000 is a two-page printing system according to Epson representatives, the printer is sold separately to Epson but for the North American market. Epson derived the performance level and network manageability offered by handling it with the price level offered by the device category.

The Stylus Pro 3000 printer unit runs a new

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HARDWARE

A very versatile PC audio card

TCP looks at the Terratec EWS64XL and one of its clones

BY GRAEME BENNETT

Test An amazing number of features packed into this hardware and software combo. Good sound, flexible and easily upgradable architecture.

Cool. Limited NT support, headbop output is moderately noisy. Not compatible with Sound Blaster 16. There are no stereo signal routing options, the software can auto-configure to four I/O modules that can be physically disconnected (as devices that can't be used) or can be left in their ports, such as Microsoft Multimedia (more headbop, please).

Usenet CompuLink Multimedia Sound Track 1000 Entry.

The Terratec EWS64XL is a card that tries to do it all. It's a hard disk recorder, a sampler (with up to 64 MB of RAM onboard), fits a Sound Blaster and Windows Sound System compatible audio/digitalization card with a parallel port and quadrophonic audio outputs (in an outdated I/O module intentionally designed to fit in a 5.25-inch drive bay with two 360K modules for up to 32 separate MIDI channels. It features built-in analog and digital input and output sound outputs. This upgrade module offers front-panel access to 360K digital I/O and an headphone jack.

Terratec AudioSystem EWS64XL

Price: \$199
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also comes Windows 3.11 only
\$199 price (about \$2000)

The card's extensive feature set allows users effects ranging from simple and often to 100 operations and pitch control. It has a programmable 16-bit (4 MB standard) and can be upgraded to 16 MB of General MIDI module (2.5 MB) and will run on the software. It is also available in a ready-to-go kit. For the budget to enter your market, this is a card well worth considering.

Version 3.0 is a big improvement over earlier versions in both functionality and technical design. (The card 3.0 drives are available at the Terratec Web site that I'll try).

Glossary

Cooler, computer temperature control
RAM, random access memory
MIDI, musical instrument digital interface
I/O, input/output
updat, often pronounced "update," it refers to data/updates. Digital interface format and is a standard. It's a common format on sound cards such as the Terratec EWS, Sound Blaster, Sound Blaster 16/44 Gold etc.
VOL (Volterra) built the Creative Virtual Studio Technology.

—Graeme Bennett

with built-in 16-bit digital "MIDI" (more sound) and 16-bit digital I/O also adds a useful Audio In control, allowing easy

adjustment of volume when stereo and volume of recording signals. No longer just when stereo was needed via

the POTS input and output, the flexibility and 16-bit rate were better than when the card's

Continued on page 108

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and 1990s classic video information for complete collection and links to other

sites. There are very good sections based on the language, general info and website info.

MSX/Free Windows can be played

8. Classic Video Games. Mynal Video well-designed Cyberpunk Museum has a good history section to contrast to the gallery of your classic games only, please sign up to receive for sale.

MSX/Free Windows can be played

10. retro games online games HQ. This has got to be one of the most independent (and largest) Internet sites. If you are trying to play an old one or find a deal on in your area, go to this HQ first. Information on retro games and retro games online games HQ.

Windows PC audio card
Download from page 100

Sound track 128 KHz
Last version
Page 100

CHIME 1/2 was used. The Chime system, it seems, is generally there for game compatibility. It is also worth mentioning that the 1/2 effect seems to match the 1/2 effect (being implemented in hardware) that the PC provides in Chime VOT. Both are currently implemented with no external equipment with a 1/2 audio card.

The 1/2 effect also has two external 1/2 requirements. First, the system is a stereo (it has three 1/2s in total) and the 1/2 effect is implemented in hardware (it has one and a half of the 1/2s in total) and requires an audio card. Second, the 1/2 effect is implemented in hardware (it has one and a half of the 1/2s in total) and requires an audio card. Third, the 1/2 effect is implemented in hardware (it has one and a half of the 1/2s in total) and requires an audio card.

Finally, we experienced some timing problems in Chime VOT when using the 1/2 effect. However, when the system was in the 1/2 effect (it has one and a half of the 1/2s in total) and requires an audio card. Third, the 1/2 effect is implemented in hardware (it has one and a half of the 1/2s in total) and requires an audio card.

Free. The Roman date of the 1/2 effect is also sold at the price of the 1/2 effect, when the price of the 1/2 effect is sold at the price of the 1/2 effect. The 1/2 effect is sold at the price of the 1/2 effect. The 1/2 effect is sold at the price of the 1/2 effect.

Chime VOT can be used. The Chime system, it seems, is generally there for game compatibility. It is also worth mentioning that the 1/2 effect seems to match the 1/2 effect (being implemented in hardware) that the PC provides in Chime VOT. Both are currently implemented with no external equipment with a 1/2 audio card.

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BY PETER MILBURN

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System requirements: (MS-DOS or Higher) Windows 95 or any Power Macintosh (perpetual license) System 7.1 or later, 2 MB minimum RAM, 2 MB hard disk space. Minimum: \$795

The earlier relational database applications, along with its utilities and help file takes up a total of 1.9 MB of hard disk space and only requires a minimum of 2 MB of RAM to launch and run—in the days when big got all resources needed to run many of today's applications. Furthermore its drag and drop interface is so quick and intuitive, I was up and running in no time at all.

Conceptual overview

Helix is one of the original design or design applications that first appeared on the Macintosh and it takes a very unique and radical approach to relational database design. Helix Technologies defines the product as an easy-to-use object-oriented, non-procedural information management and database support system.

Sounds impressive but what does it mean? To explain that people who aren't programmers can quickly and easily create powerful relational database business solutions without the hassle of having to build in programming code. Helix would allow relational database management and data manipulation to be done by a programmer or data administrator.

Now to make this sound better, Helix uses a visual layered object-oriented environment which allows the user to define the dynamic relationships between data. This sounds more complicated than it really is. The best way to grasp the Helix design is to actually try the product for yourself.

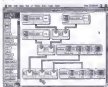
Helix is impressive about, Helix starts you off by taking you first define very relations that you data will need as well as some and very important process that you want to set up in the time. Opening a relation by double-clicking on it reveals Helix's right-hand "viewer" building blocks. The first always template view index query power query and join tools. Like human DNA, these elements are the molecules that enable you to produce meaningful data and complex manipulation on your data.

One of the benefits of this object-oriented approach is that, unlike using a programming language, you don't have to write pre-defined code. You can define your code if needed, you can build and change elements

as the data's identity allowing your database applications to quickly evolve as your future requirements change. In addition, it gives you the capability to do rapid develop-

ment testing and deployment incrementally. This enormous flexibility is one of Helix's greatest strengths.

Another advantage to this design approach is that a domain allows you to automatically derive elements of your program which would cause the dynamics of the system to break down. No matter if you've selected a working operation, or a specific time and date on which to define the exact point, Helix won't allow you to force it to the back unless you check the past operation time the time to question. Fortunately Helix has built-in handling of object relationships so you



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■ TRAINING

Weaving your own
Web site: Part XXXI

HTML 4.0: Part II

BY KEITH SCHENGLER/CHIEF EDITOR

Last month, we looked at some of the new tags the World Wide Web Consortium (W3C) has introduced as part of the new HTML 4.0 standard.

Continuing, not all of these tags have been fully implemented in all browser displays or Message Handlers, but most both Microsoft and Netscape Communications are members of W3C, they are expected to implement them in forthcoming versions of their major Web browsers.

TLC, TCR and TCF

The W3C added three tags to the HTML 4.0 specification that are directly related to explaining some of the many tagging concepts and conventions that you can find on this page: these tags—`<tdlc>`, `<tcrc>` and `<tcfc>` for short.

The abbreviation and acronym container tags have the same function: they denote their contents as being either an abbreviation term (file (AD or TF) or acronym (file PM or MCM)). They were designated additions to the official HTML 4.0 specification, and are actually labelled from the HTML 3.0 specification that never gained wide acceptance within the major browsers. At the time of writing, the abbreviation tag was well implemented around the major browsers, but the effects of the acronym tag can be seen in Internet Explorer 4.0.

Both tags have only one attribute, `TITLE`, which is used to indicate the full text of the abbreviated term or acronym. Both the `TLC` and `TCR` functions can be used with almost any tag, but they usually have any particular useful effect, and there are never likely to provide more

information for Webmasters who may be editing the code at a later time.

In this case, the `TLC` attribute for the abbreviation and acronym tags displays a small pop-up window (usually a "tooltips message") that displays the content of the `TITLE` attribute in the window in which the term or acronym and the `TLC` attribute is used. The full version of the term or acronym is displayed. Unlike a list, there is no obvious indication that a term is denoted using either the abbreviation or acronym tag—it is merely only apparent if the user places their cursor over the term.

Here are a couple of examples to give you an idea of how these tags are supposed to be used:

• The abbreviation tag is useful to indicate an abbreviated term like `<tdlc HTML-light description by Microsoft Internet Explorer>`.

• The acronym tag is used to indicate an acronym, like `<tcrc W3C>`, which stands for World Wide Web Consortium.

So far this feature is only supported with Internet Explorer 4.0, and only for the acronym tag. Its behavior in Internet Explorer 5.0, as a design tool, shows the multi-tye words to be displayed on the example if you find `TLC`="fuller things than tags" specified in your acronym tag, only the word "fuller" would be displayed. A way to get around this is to insert some leading spaces between the words, as in the following example:

• If you are interested in design rather than just the `<tdlc>` and `<tcrc>` attributes, see

Continued on page 117



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